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APPENDIX A

Title : Radio Frequency Local Area Network

Inventors: Meier, et al.

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		i			b
					b
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m m mm	eeee	ii	eeee	r rrr	b bbb
mm m m	e e	i	e e	rr r	bb b
m m m	eeeeee	i	eeeeee	r	b b
m m m	e	i	e	r	b b
m m m	e e	i	e e	r	bb b
m m m	eeee	iii	eeee	r	b bbb

		d		ll				d		
		d		l				d		
		d		l				d		
m m mm	oooo	ddd d	u u	l	eeee	ssss		ddd d	oooo	cccc
mm m m	o o	d dd	u u	l	e e	s s		d dd	o o	c
c										
m m m	o o	d d	u u	l	eeeeee	ss		d d	o o	c
m m m	o o	d d	u u	l	e	ss		d d	o o	c
m m m	o o	d dd	u uu	l	e e	s s	..	d dd	o o	c
c										
m m m	oooo	ddd d	uuu u	lll	eeee	ssss	..	ddd d	oooo	cccc

					b
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m m mm	eeee	ii	eeee	r rrr	b bbb
mm m m	e e	i	e e	rr r	bb b
m m m	eeeeee	i	eeeeee	r	b b
m m m	e	i	e	r	b b
m m m	e e	i	e e	r	bb b
m m m	eeee	iii	eeee	r	b bbb

I. MAC layer files.

- listen-before-talk algorithm:

lbt.h
lbt.c

- common routines:

mac.h
mac.c

- receive buffers:

macrxbuf.h
macrxbuf.c

- unicast receive routines:

macrxsm.c

- transmit buffers:

mactxptr.h
mactxptr.c

- unicast transmit state machine:

mactxsm.c

- unicast transmit and receive sequence control cache

mcbtbl.h
mcbtbl.c

- low-level transmit/recieve files:

common.h
rc3250.h
scc302.h
system.h
vectors.h
hdlcdriv.h
internal.h
io.h
sstcode.c
sstphy.c

II. Bridge layer (spanning tree) files.

- address server routines:

 - addrsrv.c
 - addrsrv.h

- address server task:

 - asrvtask.c

- address server task interface:

 - asrvtffc.c
 - asrvtffc.h

- attached bridge with a zero root priority:

 - bb_a.c

- unattached bridge with a zero root priority:

 - bb_u.c

- common routines:

 - bridge.c

- detached node list:

 - detlist.c
 - detlist.h

- pending message container files:

 - pendmsg.c
 - pendmsg.h
 - pmq.c
 - pmq.h

- attached bridge with a non-zero root priority:

 - r_a.c

- unattached bridge with a non-zero root priority:

 - r_u.c

- RARP (reverse address resolution packet) routing table:

 - rarptbl.c
 - rarptbl.h

- packet routing table:

 - routetbl.c
 - routetbl.h

- bridge function prototypes:

 - bridge.pro

III. SST system support routines and header files.

- error codes:

- errcodes.h
 - arperr.h
 - brgerr.h
 - macerr.h
 - llcerr.h
 - nnmperr.h

- bridge layer system parameters and structures:

- bridge.h

- SST system parameters:

- sstsys.h

- system configuration records (used by the SST task manager):

- sysctl.h

- generic bubble sort routine:

- bublsort.c
 - bublsort.h

- bridge layer transmission queue:

- brgtxq.h
 - brgtxq.c

- SST system event and data buffer management functions:

- bufpool.h - header file for all buffer functions.
 - bufbrg.c - bridge layer specific buffer functions.
 - bufcoals.c - buffer coalesce functions.
 - bufcopy.c - buffer copy functions.
 - bufcre.c - buffer pool create functions.
 - bufdisp.c - buffer display function.
 - bufenter.c - data entry iterator functions.
 - bufevbuf.c - event buffer pointer functions.
 - bufhold.c - buffer hold functions.
 - bufiter.c - data iterator functions.
 - buflc.c - llc layer specific functions.
 - bufmac.c - mac layer specific functions.
 - bufpool.c - buffer pool initialization, post, get and release functions.
 - bufpostw.c - buffer post and wait function.
 - bufptr.c - event union pointer functions.
 - bufrepl.c - buffer replicate functions.

- SST device identifier functions:

deviceid.h
deviceid.c

- generic integer set functions:

intset.h
intset.c

- millisecond timer functions:

mstimer.h
mstimer.c

- system millisecond timer task

mtmrtask.c

- network format to integer conversion functions:

ntoi.h
ntoi.c

- generic queue/stack/list implementaion:

qsl.h
qsl.c
qsliter.c - queue/list iterator functions.
qslpop.c - stack "pop" function.
qslret.c - queue return (i.e. to the head of the queue) function.

- SST bridge layer in range node list:

rangelst.h
rangelst.c

- root sequence function:

rootseq.h
rootseq.c

- AMX task create functions:

runproc.h
runp.c
runproc.c

- RB4030/RB4020 switch functions:

sw4030.c

- AMX system timer interface functions:

timer.h
timer.c

- timer list functions:

tmrlist.h
tmrlist.c

IV. SST protocol stack for a non-Norand device (ACE):

- initialization and event handler:

ace.h
ace.c

- ACE terminal MAC layer functions:

acemac.c

- terminal bridge layer address cache:

adrcache.c
adrcache.h

- SST MAC for bus communications to an ACE entity:

busmac.c
busmac.h

- ACE higher layer interface functions:

llcifc.c

- example LLC applications:

listen.c
send.c

- dummy LLC layer:

llc.c
llc.h

- LLC layer interface definition:

llcifc.h

- RC3250/RB4020/RB4030 task manager:

sstmgr.c

- example EEPROM system configuration:

stbase.c
st3lisw.c

- terminal bridge layer:

t_a.c - attached terminal node.
t_bridge.c
t_u.c - unattached terminal node.

V. Network management protocol modules.

- nnmp client protocol.

nnmp.h
nnmp.c

- client application interface.

t_nnmp.h
nnmpifc.h
nnmpifc.c

- example client application.

nnmpapp.c